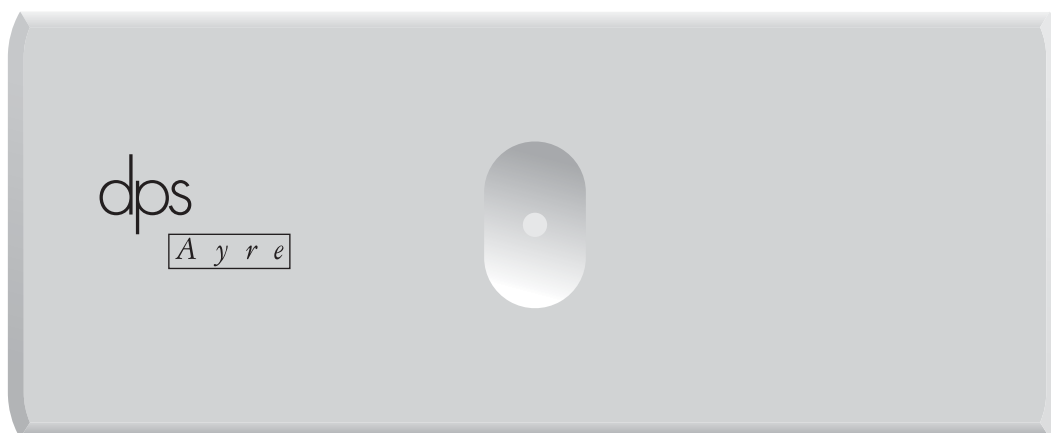


dps / Ayre

Owner's Manual



3-Phase Power Supply

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Welcome to

dps / Ayre

Your dps (der Plattenspieler, German for “the turntable”) turntable and Ayre 3-Phase Power Supply offers a significant advance in the musical performance of high-fidelity equipment. The warmth and immediacy of a live performance are apparent from the first listening. The combination of superb resolution and a natural, relaxed quality will draw you into the music, time and time again.

This level of performance has been implemented using the highest level of workmanship and materials. You can be assured that the dps turntable and Ayre 3-Phase Power Supply will provide you a lifetime of musical enjoyment.



To our North American customers, please be sure to mail your warranty registration card and photocopy of your original sales receipt within 30 days in order to extend the warranty to five years.

Introduction

The dps turntable is manufactured in Germany by Bauer Audio, with distribution in North America handled by Ayre. The unique design of the dps turntable design offers a compelling combination of high performance, ease of use, and an elegant appearance.

One key feature of the dps turntable's design is the use of a precision, high-torque 3-phase synchronous motor. The platter itself is of relatively low mass, and the proprietary zero-clearance main bearing creates a constant load on the motor. This allows the motor to precisely control the speed of the record.

The Ayre 3-Phase Power Supply is designed exclusively for the dps turntable and supplies an ultra-low distortion, analog-generated sine wave to each of the motor's three windings via three zero-feedback power amplifiers. The turntable's speed may be electronically selected between $33\frac{1}{3}$ rpm and 45 rpm with the front panel button.

Installation

The Ayre 3-Phase Power Supply is easy to connect and use. The following guidelines will ensure that the installation goes smoothly.

Location

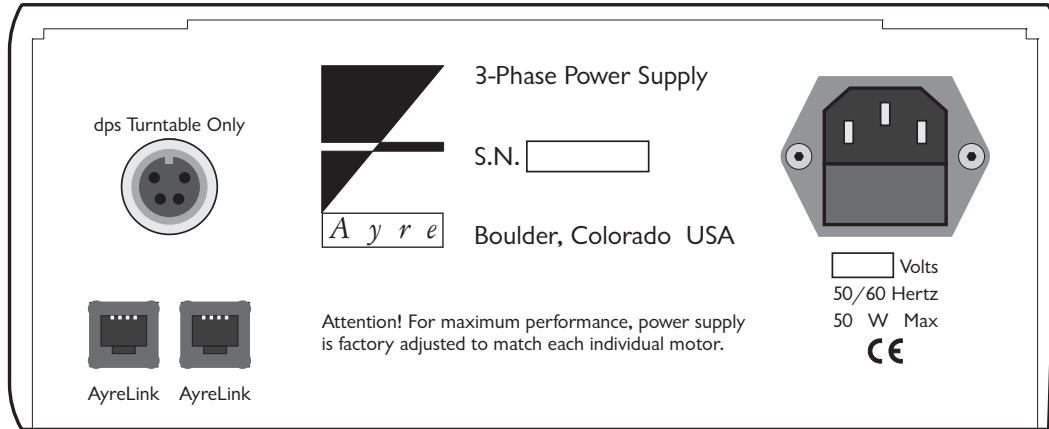
A good location for your power supply is at an easily accessible height in an open-backed cabinet or on a shelf. The internal power transformer creates a low-level stray magnetic field that may induce hum if placed too close to some phono cartridges.

Motor Drive Output

The Ayre 3-Phase Power Supply is designed to only power the dps turntable. Simply connect the DIN connector from the motor cable to the rear of the power supply and tighten the locking ring.



Do not connect the 3-Phase Power Supply to any other brand of turntable. Doing so may damage the power supply and/or the motor.



AC Power

The Ayre 3-Phase Power Supply may be plugged directly into an unswitched wall outlet. Although proprietary RFI (radio-frequency interference) filtering is built into the unit, in some situations an AC power-line filter (such as those offered by Ayre) may provide additional sonic benefits.

AyreLink Ports

The AyreLink communication system provides a convenient way to control your audio system. There are two AyreLink ports on the rear panel of the 3-Phase Power Supply. Each port has four contacts and contains both an input and an output. Both ports function identically and may be used interchangeably.

AyreLink connections are made with commonly available two-line telephone line cords using modular (RJ-11) connectors. (These are the cords that connect the telephone set to the wall in many countries.) They are readily available in different lengths and various colors at most electronics stores.



Be sure to use two-line telephone cords to make AyreLink connections. These can be identified by the four gold contacts on each connector. Single-line cords with only two gold contacts will not function in this application.

The linked components may be joined in any convenient order.

The linked components should be connected in daisy-chain fashion, connecting each component to another until all of the linked components have been connected.



When connecting the linked components to form a chain, be careful not to connect the two ends of the chain. Closing the chain to form a loop will cause the AyreLink system not to function.

Operation

The Ayre 3-Phase Power Supply has a front-panel button that controls the turntable motor. The unit can also control other linked components via the AyreLink communication system.

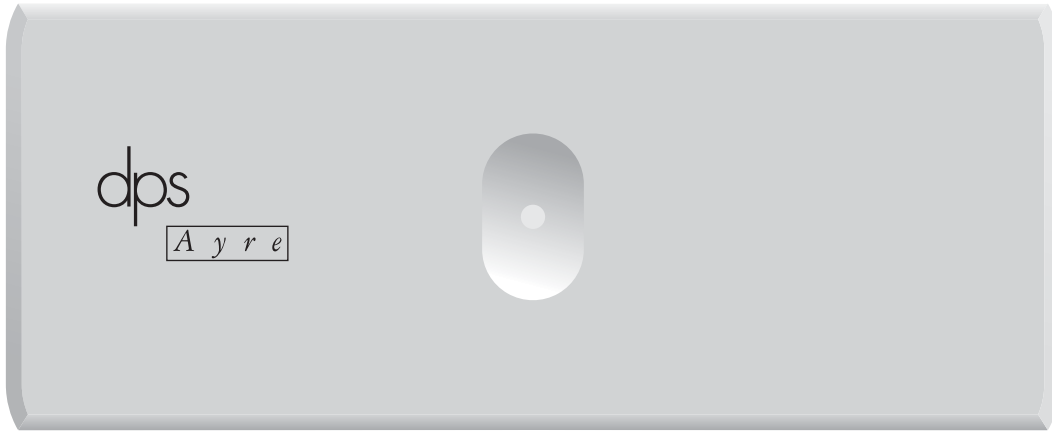
Status LED and Standby Button

The status LED on the front panel is also the standby button. Pressing this button selects between the “Standby” and “Operate” modes.

Red = Warm-Up
Green = Standby
Blue = Operate (33-¹/₃ rpm)
Violet = Operate (45 rpm)

When the unit is first connected to an AC power outlet, the status LED will glow red for approximately 60 seconds, indicating that the unit is in “Warm-Up” mode. After the circuitry has stabilized, the indicator light will change to green, indicating that the unit is in “Standby” mode and is ready for operation.

The turntable speed may be selected from the “Standby” mode. A short press of the front-panel button will select 33-¹/₃ rpm and the indicator light will glow blue.



To select 45 rpm operation, while the unit is in “Standby” mode simply press and hold the front-panel button for two seconds. The status LED will glow violet to indicate 45 rpm.

AyreLink

The AyreLink communication system provides integrated control functions for your audio system. Linked components will turn on automatically with the touch of a single button, and other features are also available.

Operate

The AyreLink system transmits the “Operate” command sequentially with a brief delay between components, avoiding potential overload of the AC power.

Turning on the Ayre 3-Phase Power Supply will automatically turn on all other linked components that are further down the signal chain, including the preamplifier and power amplifier. In addition, a properly configured linked preamplifier will also automatically switch to the phono input when the 3-Phase Power Supply is turned on.

Standby

A short press on the standby button of the Ayre 3-Phase Power Supply will turn that individual component off. A longer press (more than two seconds) will turn off all linked components.



A long button press provides a simple way to turn the entire system off from any linked component.

Display Brightness

Changing the brightness level on the display of any linked component will cause a matching change in all linked components, including the status LED of the 3-Phase Power Supply.



There is no directly accessible brightness control for the status LED on the 3-Phase Power Supply. However if there are no other linked components available to adjust the brightness, a special configuration mode allows the desired brightness level to be selected. Please refer to the chapter “Optimization and Customization”.

Break-In

Playing the unit for 100 to 500 hours will ensure full break-in.

Due to the manufacturing processes used for the printed circuit boards, wires, and capacitors, a break-in period is necessary for the Ayre 3-Phase Power Supply to reach its full performance potential.

Customization

The 3-Phase Power Supply is configured from the factory for a normal LED brightness in most installations. However, in certain circumstances it may be desirable to reduce the brightness of the status LED. In addition, information is given to configure other linked components for operation with the 3-Phase Power Supply via the AyreLink communication system.

Display Brightness

Normally the brightness of the status LED is controlled by other linked components connected to the 3-Phase Power Supply via the AyreLink communications port. However if there are no other AyreLink components available, the brightness level may be set while in the configuration mode.

To enter the configuration mode, make sure that the power supply has been disconnected from the AC mains power for at least one minute. Then press and hold the front-panel button while plugging the AC power back in. The status LED will flash violet to indicate the unit is in configuration mode.

The unit will remain in configuration mode for ten seconds. During that time, pressing the front-panel button will change the default setting for the brightness of the status LED as noted below:

One press – Low brightness

Two presses – Medium brightness

Three presses – High brightness

After the ten-second configuration period has elapsed, the status LED will revert to green (“Standby” mode).



If no button presses are detected during the ten second period, the unit will revert to the factory default setting (high brightness).

Changes to the default settings will also be transmitted via the AyreLink communication system to other linked components. Therefore, changing the display brightness of the Ayre 3-Phase Power Supply will make the same change on all linked components.

Configuring an AyreLink System

When any AyreLink source component is changed to the “Operate” mode, it broadcasts that information to the other linked components. Part of the transmitted information is an alphabetical code that identifies the source of the broadcast. The 3-Phase Power Supply will transmit the identifier code “P”. This information can be used by other linked components to automate operation of the system.

When the inputs of an AyreLink-equipped preamplifier or integrated amplifier are activated by naming them, many of the common names will have an AyreLink alphabetical code automatically associated with it. For example, the input name “Phono” is associated with the AyreLink code “P” by default. In this way, when the turntable’s 3-Phase Power Supply is turned on an AyreLink-equipped preamplifier or integrated amp will also turn on, automatically select the input labeled “Phono”.

For further details and additional programming options, please refer to the owner’s manual for your AyreLink-equipped preamplifier or integrated amplifier.

Numbers and

Specifications

Output Frequency 33-¹/₃ rpm = 50 Hz
45 rpm = 67.5 Hz

Frequency Accuracy ± 0.1%

Power Consumption 50 watts maximum

Dimensions 8-⁵/₈" W x 13-³/₄" D x 3-⁷/₈" H
22 cm x 35 cm x 10 cm

Weight 16 pounds
7.5 kg

In Case of

Trouble

The Ayre 3-Phase Power Supply provides comprehensive circuitry to protect the unit against faults.

AC Line Voltage

If the AC line voltage drops below 80% of normal (brown-out), the unit will revert to the red “Warm-Up” mode with the output disabled. After the voltage returns to normal, the initial warm-up cycle will begin again and the unit will then revert to the green “Standby” mode. Press the front panel button to return the unit to the blue “Operate” mode.

Overheating

Sensors located on the motor-drive amplifier module will shut the unit off if the heatsink temperature reaches 150° F (65° C).

If the unit is operated with insufficient ventilation, the internal temperature may become too high, triggering the thermal protection circuitry. In this case, the 3-Phase Power Supply will shut down, the front panel status LED will glow orange and the front panel button will be inoperative.

If overheating occurs, be sure to correct the cause before continuing to use the 3-Phase Power Supply.

Once the unit has cooled the unit will revert to the green “Standby” condition. To restore the unit to the blue “Operate” mode, simply press the front panel button.

Status LED Summary

<i>Red</i>	Warmup / Brownout – The low-distortion oscillator is stabilizing after the unit is first powered on. The indicator will also glow red if the AC line voltage drops below about 80% of normal.
<i>Green</i>	Standby – The power supply is ready to enter “Operate” mode.
<i>Blue</i>	Operate (33-¹/₃ rpm) – The turntable is running at 33- ¹ / ₃ rpm.
<i>Violet</i>	Operate (45 rpm) – The turntable is running at 45 rpm.
<i>Orange</i>	Over Temperature – The motor-drive amplifiers has exceeded their safe operating temperatures due to poor ventilation. The unit will automatically revert to “Standby” (green) when it has cooled. Be sure to correct the problem before continuing to use the power supply.
<i>Flashing Violet</i>	Configuration Mode – The unit has been placed into the “Configuration Mode”. Please refer to the chapter “Optimization and Customization” for additional details. It will automatically revert to “Standby” (green) after ten seconds.

Statement of

Warranty

North American Warranty

Your Ayre 3-Phase Power Supply is warranted against defects in workmanship and materials for a period of ninety days from the date of original purchase. This ninety-day coverage is automatic upon acceptance of delivery and no registration is required.

Additionally you have the option, at no cost, to extend the warranty for a period of five years from the date of purchase by returning the completed Warranty Registration Card and a photocopy of your original purchase receipt in the enclosed postage-paid envelope to Ayre within thirty days of product delivery. This optional warranty is only available within the thirty-day registration period.

North American Warranty Statement

1. If any defects are found in the materials or workmanship of this Ayre product within the warranty period, the unit will be repaired or replaced by Ayre Acoustics, Inc. (Ayre) or its authorized agent.

2. Purchaser must return the product, packed in the original shipping carton, freight prepaid to:

Ayre Acoustics, Inc.
2300-B Central Avenue
Boulder, Colorado 80301

or to Ayre's authorized agent. The product must be accompanied by a written description of the defect and a photocopy of your original purchase receipt. Ayre will not be responsible for any shipping damage and strongly recommends the purchase of shipping insurance.

3. Ayre reserves the right to inspect any product that is the subject of any warranty claim prior to repairing or replacing it. Final determination of warranty coverage lies solely with Ayre.

Out-of-warranty claims will be billed for labor, materials, return freight, and insurance as required. Any product for which a warranty claim is accepted will be returned to the purchaser and the cost of shipping and insurance will be factory prepaid within the boundaries of the USA. Units to be shipped outside of the USA will be shipped freight collect only.

4. Ayre strives to manufacture the finest possible equipment, and therefore reserves the right to make improvements on its products, without necessarily assuming any obligation to retrofit such changes upon its previously manufactured models.

5. The above warranty is the sole warranty given by Ayre, and is in lieu of all other warranties. All implied warranties, including warranties of merchantability or fitness for any particular purpose shall be strictly limited to the duration of the above warranty. Ayre shall have no further obligation of any kind, whether express or implied. Further, Ayre shall in no event be obligated for any incidental or consequential damages as a result of any defect or any warranty claim, whether express or implied.

6. Ayre does not authorize any third party, including any dealer or sales representative, to assume any liability of Ayre or make any warranty for Ayre. The unit must not have been altered or improperly serviced. The serial number on the unit must not have been altered or removed.

7. This warranty is transferable to subsequent purchasers within the original warranty period.

International Warranty

Warranty terms outside of North America may vary. Please contact the authorized Ayre distributor in your country of purchase for the terms of warranty and also the service itself.

A Place for

Notes

Serial Number: _____

Purchase Date: _____

Dealer: _____

Salesperson: _____

Ayre Acoustics, Inc.
2300-B Central Avenue
Boulder, Colorado 80301

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